

## Title (en)

Method for improved performance in fuel injected engines

## Title (de)

Verwendung für verbesserte Leistung in Kraftstoffespritzmotoren

## Title (fr)

Utilisation pour une performance améliorée dans des moteurs à injection

## Publication

**EP 2757141 A1 20140723 (EN)**

## Application

**EP 14151013 A 20140113**

## Priority

US 201313742703 A 20130116

## Abstract (en)

A method for improving performance of fuel injectors, and a method for cleaning fuel injectors for an internal combustion engine. The methods include operating the engine on a fuel composition comprising a major amount of fuel and from about 1 to about 200 ppm by weight based on a total weight of the fuel of a reaction product of (i) a hydrocarbyl substituted compound containing at least one tertiary amino group and (ii) a halogen substituted C2-C8 carboxylic acid, ester, amide, or salt thereof, wherein the reaction product as made is substantially devoid of free anion species.

## IPC 8 full level

**C10L 1/222** (2006.01); **C10L 1/22** (2006.01); **C10L 1/2383** (2006.01); **C10L 10/04** (2006.01); **C10L 10/06** (2006.01); **C10L 10/18** (2006.01)

## CPC (source: EP US)

**C10L 1/221** (2013.01 - EP US); **C10L 1/2222** (2013.01 - EP US); **C10L 1/2383** (2013.01 - EP US); **C10L 10/04** (2013.01 - EP US); **C10L 10/06** (2013.01 - EP US); **C10L 10/18** (2013.01 - EP US); **F02B 51/00** (2013.01 - US); **C10L 2200/0423** (2013.01 - EP US); **C10L 2270/023** (2013.01 - EP US)

## Citation (applicant)

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## Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

## Designated extension state (EPC)

BA ME

## DOCDB simple family (publication)

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## DOCDB simple family (application)

**EP 14151013 A 20140113**; CN 201410017196 A 20140115; KR 20140002939 A 20140109; SG 2014000418 A 20140103; US 201313742703 A 20130116